

INFORMATION DISCLOSURE STATEMENT

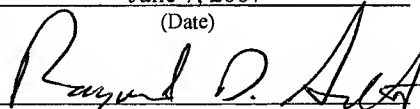
Applicant : Singh-Gill et al.
App. No : 10/580,147
Filed : May 18, 2006
For : SYNTHETIC MOLECULES HAVING
IMMUNE ACTIVITY
Examiner : Unknown
Art Unit : 1646

CERTIFICATE OF EFS WEB
TRANSMISSION

I hereby certify that this correspondence, and any other attachment noted on the automated Acknowledgement Receipt, is being transmitted from within the Pacific Time zone to the Commissioner for Patents via the EFS Web server on:

June 7, 2007

(Date)


Raymond D. Smith, Reg. No. 55,643

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Enclosed for filing in the above-identified application is a PTO/SB/08 Equivalent listing 39 references to be considered by the Examiner. Also enclosed are 39 foreign patent references and/or non-patent literature as listed on the Information Disclosure Statement.

This Information Disclosure Statement is being filed before the receipt of a first Office Action on the merits, and presumably no fee is required. If a first Office Action on the merits was mailed before the mailing date of this Statement, the Commissioner is authorized to charge the fee set forth in 37 C.F.R. § 1.17(p) to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: June 7, 2007By: 

Raymond D. Smith
Registration No. 55,634
Agent of Record
Customer No. 20,995
(805) 547-5580

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	10/580,147
	Filing Date	May 18, 2006
	First Named Inventor	Singh-Gill et al.
	Art Unit	1646
(Multiple sheets used when necessary)	Examiner	Unknown
SHEET 1 OF 3	Attorney Docket No.	AJPARK38.001APC

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document Country Code-Number-Kind Code Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T ¹
	1	JP 06271597 A2	09-27-1994	D D S KENKYUSHO:KK		
	2	WO 94/21656	09-29-1994	Genzyme Corporation		

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ¹
	3	BENNETT, C.F. et al. 1997 "An ICAM-1 antisense oligonucleotide prevents and reverses dextran sulfate sodium-induced colitis in mice" <i>J Pharmacol Exper Ther</i> 280 :988-1000	
	4	CROSSMAN, A. et al. 1997 "Parasite glycoconjugates. Part 7. Synthesis of further substrate analogues of early intermediates in the biosynthetic pathway of glycosylphosphatidylinositol membrane anchors" <i>J Chem Soc, Perkin Trans</i> 1 :2769-2774.	
	5	DREEF C.E. et al. 1991 "Synthesis of 5-phosphonate analogues of myo-inositol 1,4,5-trisphosphate: possible intracellular calcium antagonists" <i>Tetrahedron Letters</i> 32 :6021-6024.	
	6	ERB K.J. et al. 1998 "Infection of mice with <i>Mycobacterium bovis</i> -Bacillus Calmette-Guérin (BCG) suppresses allergen-induced airway eosinophilia" <i>J Exp Med</i> 187 :561-569.	
	7	GIGG, J. et al. 1985 "Synthesis of propyl 4-O-(3,6-Di-O-methyl-β-D-glucopyranosyl)-2,3-di-O-methyl-α-D-rhamnopyranoside" <i>Carbohydrate Res</i> 141 :91-97.	
	8	GILLERON, M. et al. 2001 "Acylation state of the phosphatidylinositol manosides from <i>Mycobacterium bovis</i> Bacillus Calmette Guérin and ability to induce granuloma and recruit natural killer T cells" <i>J Biol Chem</i> 276 :34896-34904.	
	9	GILLERON, M et al. 2003 "Acylation state of the phosphatidylinositol hexamannosides from <i>Mycobacterium bovis</i> Bacillus Calmette Guérin and <i>Mycobacterium tuberculosis</i> H37Rv and its implication in Toll-like receptor response" <i>J Biol Chem</i> 278 :29880-29889.	
	10	GREEN, M.M. et al. 1987 "Broken worm and wormlike models for polyisocyanates" <i>Macromolecules</i> 20 :2636-2638.	
	11	GROSS, D. M. et al. 1998 "Identification of LFA-1 as a candidate autoantigen in treatment-resistant lyme arthritis" <i>Science</i> 281 :703-706.	
	12	HALLORAN, M.M. et al. 1996 "Cellular adhesion molecules in rat adjuvant arthritis" <i>Arthritis and Rheumatism</i> 39 :810-819.	

Examiner Signature	Date Considered
*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

T¹ - Place a check mark in this area when an English language Translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	10/580,147
	Filing Date	May 18, 2006
	First Named Inventor	Singh-Gill et al.
	Art Unit	1646
(Multiple sheets used when necessary)	Examiner	Unknown
SHEET 2 OF 3	Attorney Docket No.	AJPARK38.001APC

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ¹
	13	HASEGAWA, Y. et al. 1994 "Prevention of autoimmune insulin-dependent diabetes in non-obese diabetic mice by anti-LFA-1 and anti-ICAM-1 mAB" <i>Int Immunol</i> 6 : 831-838.	
	14	HEROLD, K.C. et al. 1994 "Prevention of autoimmune diabetes by treatment with anti-LFA-1 and anti-ICAM-1 monoclonal antibodies" <i>Cellular Immunol</i> 157 :489-500.	
	15	HERZ U et al. 1998 "BCG infection suppresses allergic sensitization and development of increased airway reactivity in an animal model" <i>J Allergy Clin Immunol</i> 102 :867-874	
	16	HIROOKA M. et al. 2003 "Glycosylation using hemiacetal sugar derivatives: synthesis of O- α -D-rhamnosyl-(1 \rightarrow 3)-O- α -D-rhamnosyl-(1 \rightarrow 2)-D-rhamnose and - α -D-Tyvelosyl-(1 \rightarrow 3)-O- α -D-mannosyl-(1 \rightarrow 4)-L-rhamnose" <i>Bull Chem Soc Jpn</i> 76 :1409-1421.	
	17	HIRTH G et al. 1982 "Synthesis of glyceryletherphosphatides. Part 1. Preparation of 1-O-octadecyl-2-O-acetyl-sn-glycerol-3-phosphorylcholine ('platelet activating factor'), its enantiomers and some analogous compounds" <i>Helvetica Chimica Acta</i> 65 :1059-1084	
	18	HIRTH G et al. 1983 "Synthesis of glyceryletherphosphatides. Part 2. Preparation of 2-O-acetyl-1-O-[(Z)-9-octadecenyl]-sn-glycerol-3-phosphorylcholine (Oley-PAF), of its enantiomer and some analogous, unsaturated compounds" <i>Helvetica Chimica Acta</i> 66 : 1210-1240.	
	19	IRANPOOR, N. et al. 1996 "FeCl ₃ -6H ₂ O supported on SiO ₂ catalyzed ring-opening of epoxides with alcohols, acetic acid, water, chloride, bromide, and nitrate ions" <i>Synthesis</i> : 1473-1476.	
	20	ITANO K. et al. 1980 "Stereospecific preparation of monoglucosides of optically active <i>trans</i> -1,2-cyclohexanediols by enzymic <i>trans</i> -D-glucosylation and ¹³ C-N.M.R. spectroscopy of the resulting mono-D-glucopyranosides" <i>Carbohydrate Res</i> 87 :27-34.	
	21	KAKIMOTO, K. et al. 1992 "The effect of anti-adhesion molecule antibody on the development of collagen-induced arthritis" <i>Cellular Immunol</i> 142 :326-337.	
	22	KNOERZER, D.B. et al. 1997 "Clinical and histological assessment of collagen-induced arthritis progression in the diabetes-resistant BB/Wor Rat" <i>Toxicol Pathol</i> 25 :13-19.	
	23	KOIZUMI, K. et al. 1991 "Characterization of five isomers of branched cyclomaltoheptaose (β CD) having degree of polymerization (d.p.) = 9: Reinvestigation of three positional isomers of diglucosyl- β CD" <i>Carbohydrate Res</i> 215 :127-136.	
	24	KOTO, S. et al. 1976 "Preparation of 2,3,4,6-tetra-O-benzyl-D-mannose" <i>Bull Chem Soc of Jpn</i> 49 :2639-2640.	
	25	KOTO, S. et al. 1992 "Dehydrative glycosylation using heptabenzyl derivatives of glucobioses and lactose" <i>Bull Chem Soc Jpn</i> 65 :3257-3274.	
	26	LINDBERG, J. et al. 2002 "Efficient synthesis of phospholipids from glycidyl phosphates" <i>J Org Chem</i> 67 :194-199.	
	27	LINDHORST, T.K. et al. 2000 "Cluster mannosides as inhibitors of type 1 fimbriae-mediated adhesion of <i>Escherichia coli</i> : pentaerythritol derivatives as scaffolds" <i>Eur J Org Chem</i> 2027-2034.	

Examiner Signature	Date Considered
*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

T¹ - Place a check mark in this area when an English language Translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	10/580,147
	Filing Date	May 18, 2006
	First Named Inventor	Singh-Gill et al.
	Art Unit	1646
(Multiple sheets used when necessary)	Examiner	Unknown
SHEET 3 OF 3	Attorney Docket No.	AJPARK38.001APC

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ¹
	28	MULLIGAN, M.S. et al. 1995 "Compartmentalized roles for leukocytic adhesion molecules in lung inflammatory injury" <i>J Immunol</i> 154 :1350-1363.	
	29	OPPENHEIMER-MARKS, N. et al. 1998 "Interleukin 15 is produced by endothelial cells and increases the transendothelial migration of T-cells <i>in vitro</i> and in the SCID mouse-human rheumatoid arthritis model <i>in vivo</i> " <i>J Clin Invest</i> 101 :1261-1272.	
	30	RAJANBABU, T.V. et al. 1989 "Stereochemical control in hex-5-enyl radical cyclizations: from carbohydrates to carbocycles" <i>J Am Chem Soc</i> 111 :1759-1769.	
	31	RANDOLPH D.A. et al. 1999 "Cooperation between Th1 and Th2 cells in a murine model of eosinophilic airway inflammation" <i>J Clin Invest</i> 104 :1021-1029.	
	32	SCHIMMER, R.C. et al. 1998 "Streptococcal cell wall-induced arthritis: requirements for IL-4, IL-10, IFN- γ , and monocytes chemoattractant protein-1" <i>J Immunol</i> 160 :1466-1471.	
	33	SEVERN, W.B. et al. 1997 "Improved procedure for the isolation and purification of lipoarabinomannan from <i>Mycobacterium bovis</i> strain AN5" <i>J Microbiol Meth</i> 28 :123-130.	
	34	VAN BOECKEL C.A.A. et al. 1979 "Synthesis of glucosyl phosphatidylglycerol via a phosphotriester intermediate" <i>Tetrahedron Letters</i> 37 :3561-3564.	
	35	VAN BOECKEL C.A.A. et al. 1981 "Phosphotriester approach to the synthesis of α -glucosylated mono and diphosphatidyl glycerols: bacterial cell wall components" <i>Tetrahedron</i> 37 :3751-3761.	
	36	WATANABE Y. et al. 1993 "Glycosylation based on phosphite chemistry" <i>Synlett</i> , 115-116.	
	37	WATANABE Y. et al. 1994 "Glycosylation using glycosyl phosphite as a glycosyl donor" <i>Tetrahedron</i> 50 :6523-6536.	
	38	ZALIPSKY S. et al. 1999 "New chemoenzymatic approach to glycol-lipopolymers: practical preparation of functionally active galactose-poly(ethylene glycol)-distearoylphosphatidic acid (Gal-PEG-DSPA) conjugate" <i>Chem Commun</i> 7 :653-654.	
	39	ZALIPSKY S et al. 2002 "Phospholipase D mediated synthesis of PEG-lipids for liposomal drug delivery" <i>Polymer Preprints</i> 43 :710.	

3724940
050307

Examiner Signature	Date Considered
*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

T¹ - Place a check mark in this area when an English language Translation is attached.